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Sequence Listing was accepted.
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Reviewer: Anne Corrigan
Timestamp: [year=2008; month=4; day=25; hr=10; min=3; sec=27; ms=951;]
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Validated By CRFValidator v 1.0.3

Application No: 10573704 Version No: 1.0

Input Set:

Output Set:

Started: 2008-04-10 18:29:22.435
Finished: 2008-04-10 18:29:23.701
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 266 ms
Total Warnings: 21
Total Errors: 0
No. of SeqIDs Defined: 21
Actual SeqID Count: 21

Error code		Error Description
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W	213	Artificial or Unknown found in <213> in SEQ ID (19)
W	213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

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Total Warnings: 21
Total Errors: 0
No. of SeqIDs Defined: 21
Actual SeqID Count: 21

Error code	Error Description

This error has occured more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Fleury, Sylvain
Girard, Marc
Roger, Marie-Gaelle
Mouz, Nicolas
Serres, Pierre-Francois

<120> New Soluble and Stabilized Trimeric Form of GP41 Polypeptides

<130> 122481

<140> 10573704
<141> 2008-04-10

<150> PCT/IB2004/002433
<151> 2004-07-29

<150> 60/490,946
<151> 2003-07-30

<160> 21

<170> PatentIn version 3.4

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<213> Artificial Sequence

<220>
<223> Synthetic

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1 5 10 15

Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp
20 25 30

Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu
35 40 45

Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile
50 55 60

Cys Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu
65 70 75 80

Glu Gln Ile Trp Asn Asn Met Thr Trp Met Glu Trp Asp Arg Glu Ile

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                85                  90                  95

Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn
            100                 105                 110

Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala
        115                 120                 125

Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu
    130                 135                 140
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<210> 2
<211> 7
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<220>
<223> Synthetic

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<210> 3
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<212> PRT
<213> Artificial Sequence

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<223> Synthetic

<400> 3

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<210> 4
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<212> PRT
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<223> Synthetic

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Val Glu Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp
            20                  25                  30
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<210> 5
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<212> PRT
<213> Artificial sequence

<220>
<223> synthetic

<400> 5

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1               5                   10                  15

Lys Leu Ile Cys Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser
            20                  25                  30
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<210> 6
<211> 36
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic

<400> 6

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1               5                   10                  15

Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu
            20                  25                  30

Lys Asn Glu Gln
        35
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<220>
<223> Gp41

<400> 7

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agaatcctgg ctgtggaaag atacctaaag gatcaacagc tcctggggat tgacggtagc 180

agtggaggta gaggtggatc caatgctagt tggagtaata aatctctgga acagatttgg 240

aatcacacga cctggatgga gtgggacaga gaaattaaca attacacaag cttaatacac 300

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gatctcgagc accaccacca ccaccactga 390

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<212> PRT
<213> Artificial sequence

<220>
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<400> 8

Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Asp Gly Ser Ser Gly Gly Arg
50 55 60

Gly Gly Ser Asn Ala Ser Trp Ser Asn Lys Ser Leu Glu Gln Ile Trp
65 70 75 80

Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr
85 90 95

Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys
100 105 110

Asn Glu Gln Glu Leu Leu Glu Leu Asp Leu Glu His His His His His
115 120 125

His

<210> 9
<211> 32
<212> DNA
<213> Artificial sequence

<220>
<223> Primer

<400> 9
ggaatccaca tatgcaggcc agacaattat tg 32

<210> 10
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 10
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<210> 11
<211> 44
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<213> Artificial Sequence

<220>
<223> Primer

<400> 11
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<210> 12
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<223> GP41

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agaatcctgg ctgtggaaag atacctaaag gatcaacagc tcctggggat ttggggtagc 180

tctggaaaac tcattagcac cactgctgtg ccttggaatg ctagttggag taataaatct 240

ctggaacaga tttggaatca cacgacctgg atggagtggg acagagaaat taacaattac 300

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<210> 14
<211> 137
<212> PRT
<213> Artificial Sequence

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<223> GP41

<400> 14

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1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Lys Leu
50 55 60

Ile Ser Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser
65 70 75 80

Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu
85 90 95

Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln
100 105 110

Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp
        115   120   125

Ala Ser Leu Trp Asn Trp Phe Asn Ile
    130   135

<210> 15
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 15

Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala Val Pro Trp
1   5   10

<210> 16
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 16

Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala Val
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Pro Trp Asn Ala Ser Trp Ser Asn Lys
            20   25

<210> 17
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 17

Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1   5   10   15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
            20   25   30

```
Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
        35                  40                  45

Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu Glu
    50                  55                  60

Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn
65                  70                  75                  80

Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln
                85                  90                  95

Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser
            100                 105                 110

Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu Asp His His His His
        115                 120                 125

His His
    130
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<210> 18
<211> 128
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 18

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1               5                   10                  15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
            20                  25                  30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
        35                  40                  45

Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu Glu
    50                  55                  60

Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn
65                  70                  75                  80
```

```
Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln
                85                  90                  95

Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser
            100                 105                 110

Leu Trp Asn Trp Phe Asn Ile Thr Asn Asp His His His His His His
        115                 120                 125
```

<210> 19
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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 19

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1               5                   10                  15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
            20                  25                  30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
        35                  40                  45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Gly Arg
    50                  55                  60

Gly Gly Ser Ser Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu
65                  70                  75                  80

Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile
                85                  90                  95

Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu
            100                 105                 110

Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp
        115                 120                 125

Leu Asp His His His His His His
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130 135

<210> 20
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 20

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1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Gly Arg
50 55 60

Gly Gly Ser Ser Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu
65 70 75 80

Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile
85 90 95

Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu
100 105 110

Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Asp
115 120 125

His His His His His His
130

<210> 21
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 21

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1               5                   10                  15

Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg
            20                  25                  30

Tyr Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu
        35                  40                  45

Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile
    50                  55                  60

Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn
65                  70                  75                  80

Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala
                85                  90                  95

Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu Asp His His His
            100                 105                 110

His His His
        115
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